***** QUERY RESULTS ***** (NARROW SEARCH)

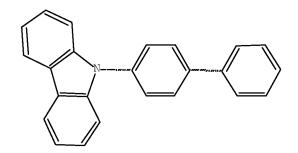
⇒ d his 16

(FILE 'REGISTRY' ENTERED AT 13:09:28 ON 23 SEP 2008) SAVE TEMP L5 GAR262REGL4/A

FILE 'HCAPLUS' ENTERED AT 13:12:07 ON 23 SEP 2008 L6 1 S L5

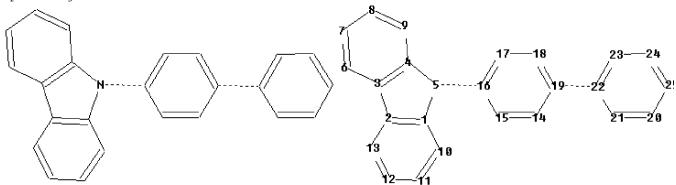
⇒ d que 16

STR L1



Structure attributes must be viewed using STN Express query preparation:

Uploading L2.str



ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

chain bonds : 5-16 19-22 ring bonds :

 $1-2 \quad 1-5 \quad 1-10 \quad 2-3 \quad 2-13 \quad 3-4 \quad 3-6 \quad 4-5 \quad 4-9 \quad 6-7 \quad 7-8 \quad 8-9 \quad 10-11 \quad 11-12 \quad 12-13$ $14-15 \quad 14-19 \quad 15-16 \quad 16-17 \quad 17-18 \quad 18-19 \quad 20-21 \quad 20-25 \quad 21-22 \quad 22-23 \quad 23-24 \quad 24-25$

exact/norm bonds :

1-5 4-5 5-16 19-22

exact bonds :

2-3

normalized bonds :

 $1-2 \quad 1-10 \quad 2-13 \quad 3-4 \quad 3-6 \quad 4-9 \quad 6-7 \quad 7-8 \quad 8-9 \quad 10-11 \quad 11-12 \quad 12-13 \quad 14-15 \quad 14-19$

 $15 - 16 \quad 16 - 17 \quad 17 - 18 \quad 18 - 19 \quad 20 - 21 \quad 20 - 25 \quad 21 - 22 \quad 22 - 23 \quad 23 - 24 \quad 24 - 25$

isolated ring systems :

containing 1 : 14 : 20 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom

20:Atom 21:Atom

22:Atom 23:Atom 24:Atom 25:Atom

L2 642 SEA FILE=REGISTRY SSS FUL L1 L3 STR

□ STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation:

Uploading L4.str

chain nodes : 27 28 48 49 54 ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47

56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74

chain bonds :

5-16 19-22 20-54 24-27 25-58 31-48 34-38 61-65

ring bonds :

29-30 29-34

30-31 31-32 32-33 33-34 35-36 35-39 35-43 36-37 36-44 37-38 37-47 38-39

39-40 40-41

41-42 42-43 44-45 45-46 46-47 56-57 56-61 57-58 58-59 59-60 60-61 62-63

62-66 62-70 63-64

 $63-71 \quad 64-65 \quad 64-74 \quad 65-66 \quad 66-67 \quad 67-68 \quad 68-69 \quad 69-70 \quad 71-72 \quad 72-73 \quad 73-74$

exact/norm bonds :

 $1-5 \quad 4-5 \quad 5-16 \quad 20-54 \quad 34-38 \quad 37-38 \quad 38-39 \quad 61-65 \quad 64-65 \quad 65-66$

exact bonds :

2-3 19-22 24-27 25-58 31-48 35-36 62-63

normalized bonds : $1-2 \quad 1-10 \quad 2-13 \quad 3-4 \quad 3-6 \quad 4-9 \quad 6-7 \quad 7-8 \quad 8-9 \quad 10-11 \quad 11-12 \quad 12-13 \quad 14-15 \quad 14-19$ 15-16 16-17 17-18 18-19 20-21 20-25 21-22 22-23 23-24 24-25 29-30 29-34 30-31 31-32 32-33 33-34 35-39 35-43 36-37 36-44 37-47 39-40 40-41 41-42 42-43 44-4545-46 46-47 56-57 56-61 57-58 58-59 59-60 60-61 62-66 62-70 63-64 63-71 64-74 66-67 67-68 68-69 69-70 71-72 72-73 73-74 isolated ring systems : containing 1 : 14 : 20 : 29 : 35 : 56 : 62 : G1:[*1],[*2],[*3] Match level: 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 27:Atom 28:CLASS 29:Atom 30:Atom 31:Atom 34:Atom 35:Atom 36:Atom 37:Atom 38:Atom 39:Atom 40:Atom 41:Atom 42:Atom 43:Atom 44:Atom 45:Atom 46:Atom 47:Atom 48:CLASS 49:Atom 54:CLASS 56:Atom 57:Atom 58:Atom 59:Atom 60:Atom 61:Atom 62:Atom 63:Atom 64:Atom 65:Atom 67:Atom 68:Atom 69:Atom 70:Atom 71:Atom Generic attributes : 27: Number of Carbon Atoms: 7 or more 49. Number of Carbon Atoms : 7 or more L5 8 SEA FILE=REGISTRY SUB=L2 SSS FUL L3 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L5 L6 ⇒ d l6 ibib abs hitstr ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:697162 HCAPLUS Full-text DOCUMENT NUMBER: 143:182921 TITLE: Host material for organic electroluminescent device INVENTOR(S): Nakamura, Hiroaki; Arakane, Takashi; Iwakuma, Toshihiro; Ikeda, Kiyoshi; Ikeda, Hidetsugu; Kubota, Mineyuki PATENT ASSIGNEE(S): Idemitsu Kosan Co., Ltd., Japan SOURCE: PCT Int. Appl., 37 pp. CODEN: PIXXD2 DOCUMENT TYPE: Patent LANGUAGE: Japanese FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

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WO 2005072017
                         Α1
                                20050804
                                           WO 2005-JP522
                                                                  20050118
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
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             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
             TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
             AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
             EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
            RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
            MR, NE, SN, TD, TG
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                                           EP 2005-703759
     EP 1708547
                         Α1
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
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                               20070321
                                           CN 2005-80008607
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                               20070524
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                                           IN 2006-CN2686
     IN 2006CN02686
                         Α
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                                                                  20060721
PRIORITY APPLN. INFO.:
                                           JP 2004-12630
                                                               A 20040121
                                           WO 2005-JP522
                                                              W 20050118
                       MARPAT 143:182921
OTHER SOURCE(S):
GΙ
```

AB A compound which is used for organic electroluminescent device (EL) having a long luminescent life and excellent heat resistance. It is a host material for organic electroluminescent devices which comprises a carbazole derivative represented by the general formula (I), where one of R1 and R2 is a group represented by the structural formula (1-phenyl-4-yl)_luorine (II), and the other is a group represented by the structural formula (II), hydrogen, or aryl having 6 to 50 nucleus carbon atoms; and Ar is (un)substituted aryl having 6 to 60 nucleus carbon atoms, provided that Ar is neither Ph, 4-biphenyl, 4-terphenyl, nor 4-quaterphenyl and that when R1 is hydrogen and R2 is a group represented by the structural formula (II), then Ar is not 3,5-diphenylphenyl.

IT 861213-06-1 861213-07-2 861213-08-3

861213-09-4 861213-10-7 861213-11-8

861213-12-9

RL: DEV (Device component use); USES (Uses)

(host material for organic electroluminescent device)

RN 861213-06-1 HCAPLUS

CN 9H-Carbazole, 9,9'-[2'-(1-naphthalenyl)[1,1':4',1''-terphenyl]-4,4''-diyl]bis-(9CI) (CA INDEX NAME)

RN 861213-07-2 HCAPLUS

CN 9H-Carbazole, 9,9'-[2'-(9-anthracenyl)[1,1':4',1''-terphenyl]-4,4''-diyl]bis- (9CI) (CA INDEX NAME)

RN 861213-08-3 HCAPLUS

CN 9H-Carbazole, 9,9'-[2'-(2-anthracenyl)[1,1':4',1''-terphenyl]-4,4''-diyl]bis- (9CI) (CA INDEX NAME)

RN 861213-09-4 HCAPLUS

CN 9H-Carbazole, 9,9'-[2'-(1-anthracenyl)[1,1':4',1''-terphenyl]-4,4''-diyl]bis- (9CI) (CA INDEX NAME)

RN 861213-10-7 HCAPLUS

CN 9H-Carbazole, 9,9'-[2'-(9-phenanthrenyl)[1,1':4',1''-terphenyl]-4,4''-diyl]bis- (9CI) (CA INDEX NAME)

RN 861213-11-8 HCAPLUS

CN 9H-Carbazole, 9,9'-[2'-(2-phenanthrenyl)[1,1':4',1''-terphenyl]-4,4''-diyl]bis- (9CI) (CA INDEX NAME)

RN 861213-12-9 HCAPLUS

CN 9H-Carbazole, 9,9'-[2'-(2-chrysenyl)[1,1':4',1''-terphenyl]-4,4''-diyl]bis-(9CI) (CA INDEX NAME)

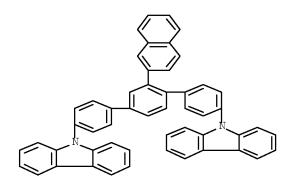
IT 861213-05-0P

RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(host material for organic electroluminescent device)

RN 861213-05-0 HCAPLUS

CN 9H-Carbazole, 9,9'-[2'-(2-naphthalenyl)[1,1':4',1''-terphenyl]-4,4''-diyl]bis-(9CI) (CA INDEX NAME)



6

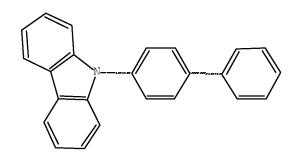
REFERENCE COUNT:

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

***** QUERY RESULTS ***** (CLAIM 2-6)

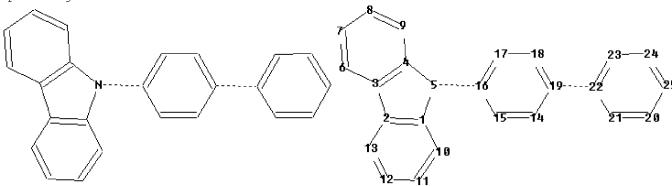
=> d his 129

=> d que 129 L1 STR



Structure attributes must be viewed using STN Express query preparation:

Uploading L2.str



ring nodes:
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25
chain bonds:
5-16 19-22
ring bonds:
1-2 1-5 1-10 2-3 2-13 3-4 3-6 4-5 4-9 6-7 7-8 8-9 10-11 11-12 12-13
14-15 14-19 15-16 16-17 17-18 18-19 20-21 20-25 21-22 22-23 23-24 24-25
exact/norm bonds:
1-5 4-5 5-16 19-22
exact bonds:
2-3
normalized bonds:
1-2 1-10 2-13 3-4 3-6 4-9 6-7 7-8 8-9 10-11 11-12 12-13 14-15 14-19

1-2 1-10 2-13 3-4 3-6 4-9 6-7 7-8 8-9 10-11 11-12 12-13 14-15 14-19 15-16 16-17 17-18 18-19 20-21 20-25 21-22 22-23 23-24 24-25 isolated ring systems : containing 1 : 14 : 20 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom

20:Atom 21:Atom

22:Atom 23:Atom 24:Atom 25:Atom

L2 642 SEA FILE=REGISTRY SSS FUL L1 L3 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation:

Uploading L5.str

chain nodes :

27 48

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 chain bonds:

5-16 19-22 20-30 24-27 25-48 33-37

ring bonds :

28-29 28-33

29-30 30-31 31-32 32-33 34-35 34-38 34-42 35-36 35-43 36-37 36-46 37-38

38-39 39-40

40-41 41-42 43-44 44-45 45-46

exact/norm bonds :

1-5 4-5 5-16 33-37 36-37 37-38

exact bonds :

2-3 19-22 20-30 24-27 25-48 34-35

normalized bonds :

29-30 30-31

31-32 32-33 34-38 34-42 35-36 35-43 36-46 38-39 39-40 40-41 41-42 43-44

44-45 45-46

isolated ring systems :

containing 1 : 14 : 20 : 28 : 34 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 23:Atom 23:Atom 23:Atom 23:Atom 33:Atom 33:Atom 33:Atom 33:Atom 34:Atom 35:Atom 36:Atom 37:Atom 38:Atom 39:Atom 40:Atom 41:Atom 42:Atom 43:Atom 44:Atom 46:Atom 48:CLASS Generic attributes: 27:
Number of Carbon Atoms: 7 or more

L5 8 SEA FILE=REGISTRY SUB=L2 SSS FUL L3 L20 STR

Structure attributes must be viewed using STN Express query preparation.

L22 9 SEA FILE=REGISTRY SUB=L2 SSS FUL L20

L23 9 SEA FILE=REGISTRY ABB=ON PLU=ON L22 NOT L5

L25 STR

Structure attributes must be viewed using STN Express query preparation:

Uploading L6.str

Saturation

Number of Carbon Atoms : 7 or more
Type of Ring System : Polycyclic

```
chain nodes :
27
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
chain bonds :
5-16 19-22 20-30 24-27 33-37
ring bonds :
1-2 \quad 1-5 \quad 1-10 \quad 2-3 \quad 2-13 \quad 3-4 \quad 3-6 \quad 4-5 \quad 4-9 \quad 6-7 \quad 7-8 \quad 8-9 \quad 10-11 \quad 11-12 \quad 12-13
14-15 \quad 14-19 \quad 15-16 \quad 16-17 \quad 17-18 \quad 18-19 \quad 20-21 \quad 20-25 \quad 21-22 \quad 22-23 \quad 23-24 \quad 24-25
28-29 28-33
29-30 30-31 31-32 32-33 34-35 34-38 34-42 35-36 35-43 36-37 36-46 37-38
38-39 39-40
40-41 41-42 43-44 44-45 45-46
exact/norm bonds:
1-5 4-5 5-16 19-22 20-30 33-37 36-37 37-38
exact bonds :
2-3 24-27 34-35
normalized bonds :
1-2 \quad 1-10 \quad 2-13 \quad 3-4 \quad 3-6 \quad 4-9 \quad 6-7 \quad 7-8 \quad 8-9 \quad 10-11 \quad 11-12 \quad 12-13 \quad 14-15 \quad 14-19
15-16 16-17 17-18 18-19 20-21 20-25 21-22 22-23 23-24 24-25 28-29 28-33
29-30 30-31
31-32 32-33 34-38 34-42 35-36 35-43 36-46 38-39 39-40 40-41 41-42 43-44
44-45 45-46
isolated ring systems :
containing 1 : 14 : 20 : 28 : 34 :
Match level:
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom
22:Atom 23:Atom 24:Atom 25:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom
34:Atom 35:Atom 36:Atom 37:Atom 38:Atom 39:Atom 40:Atom 41:Atom 42:Atom
43:Atom 44:Atom
45:Atom 46:Atom
Generic attributes :
27:
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: Unsaturated

L27 9 SEA FILE=REGISTRY SUB=L2 SSS FUL L25 L28 9 SEA FILE=REGISTRY ABB=ON PLU=ON L27 OR L23 L29 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L28

=> d 129 1-2 ibib abs hitstr

L29 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:697162 HCAPLUS Full-text

DOCUMENT NUMBER: 143:182921

TITLE: Host material for organic electroluminescent device

INVENTOR(S): Nakamura, Hiroaki; Arakane, Takashi; Iwakuma,

Toshihiro; Ikeda, Kiyoshi; Ikeda, Hidetsugu; Kubota,

Mineyuki

PATENT ASSIGNEE(S): Idemitsu Kosan Co., Ltd., Japan

SOURCE: PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PA | PATENT NO. | | | | KIND | | DATE | | APPLICATION NO. | | | | | | | | | |
|------------------------|----------------|------|-----|-----|-------------|----------|------|----------------|-----------------|------|------|----------|----------|-----|-----|------|-----|--|
| WC | WO 2005072017 | | | A1 | | 20050804 | | WO 2005-JP522 | | | | | | | | | | |
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| | | CN, | CO, | CR, | CU, | CZ, | DE, | DK, | DM, | DZ, | EC, | EE, | EG, | ES, | FI, | GB, | GD, | |
| | | | | | | | | | | | JP, | | | | | | | |
| | | LK, | LR, | LS, | LT, | LU, | LV, | MA, | MD, | MG, | MK, | MN, | MW, | MX, | MZ, | NA, | NΙ, | |
| | | | • | | | | | • | | | SC, | | | | • | | | |
| | | • | • | • | • | • | • | • | • | • | UΖ, | • | • | • | • | • | • | |
| | RW: | • | • | • | • | • | • | • | • | • | SL, | • | • | • | • | • | | |
| | | | | • | • | | • | | | | BE, | • | • | • | • | | • | |
| | | • | • | | | | • | • | | | IT, | | | | • | | | |
| | | RO, | SE, | SI, | SK, | TR, | BF, | ВJ, | CF, | CG, | CI, | CM, | GA, | GN, | GQ, | GW, | ML, | |
| | | MR, | NE, | SN, | TD, | TG | · | • | • | · | · | · | • | · | ~. | , | · | |
| EP | EP 1708547 | | | · | A1 20061004 | | | | EP 2 | 005- | 7037 | 59 | 20050118 | | | | | |
| | R: | AΤ, | BE, | CH, | DE, | DK, | ES, | FR, | GB, | GR, | ΙT, | LI, | LU, | NL, | SE, | MC, | PT, | |
| | | | | | | | | | | | EE, | | | | | | · | |
| CN | 1934 | 908 | | | A | | 2007 | 0321 | | CN 2 | 005- | 8000 | 8607 | | 2 | 0050 | 118 | |
| US | US 20070116982 | | | | | | | US 2006-586262 | | | | 20060718 | | | | | | |
| IN | IN 2006CN02686 | | | | Α | | 2007 | 0608 | | IN 2 | 006- | CN26 | 86 | | 2 | 0060 | 721 | |
| PRIORITY APPLN. INFO.: | | | | | | | | | | | 004- | | | | | 0040 | 121 | |
| | | | | | | | | | | WO 2 | 005- | JP52 | 2 | 1 | W 2 | 0050 | 118 | |
| | OLIDGE | /C). | | | MAD | ח ע ת | 1/2. | 1020 | 2.1 | | | | | | | | | |

OTHER SOURCE(S): MARPAT 143:182921

GΙ

AΒ A compound which is used for organic electroluminescent device (EL) having a long luminescent life and excellent heat resistance. It is a host material for organic electroluminescent devices which comprises a carbazole derivative represented by the general formula (I), where one of R1 and R2 is a group represented by the structural formula (1-phenyl-4-yl)fluorene (II), and the other is a group represented by the structural formula (II), hydrogen, or aryl having 6 to 50 nucleus carbon atoms; and Ar is (un)substituted aryl having 6 to 60 nucleus carbon atoms, provided that Ar is neither Ph, 4-biphenyl, 4terphenyl, nor 4-quaterphenyl and that when R1 is hydrogen and R2 is a group represented by the structural formula (II), then Ar is not 3,5-diphenylphenyl. ΙT

861213-21-0 861213-22-1 861213-23-2

861213-24-3 861213-25-4 861213-26-5

861213-27-6

RL: DEV (Device component use); USES (Uses)

(host material for organic electroluminescent device)

RN 861213-21-0 HCAPLUS

9H-Carbazole, 9,9'-[5'-(2-naphthalenyl)[1,1':3',1''-terphenyl]-4,4''-CN diyl]bis- (9CI) (CA INDEX NAME)

RN 861213-22-1 HCAPLUS

9H-Carbazole, 9,9'-[5'-(1-naphthalenyl)[1,1':3',1''-terphenyl]-4,4''-CN diyl]bis- (9CI) (CA INDEX NAME)

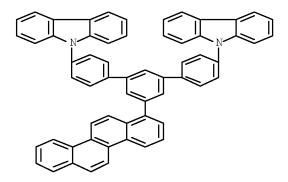
RN 861213-23-2 HCAPLUS
CN 9H-Carbazole, 9,9'-[5'-(9-phenanthrenyl)[1,1':3',1''-terphenyl]-4,4''-diyl]bis-(9CI) (CA INDEX NAME)

RN 861213-24-3 HCAPLUS
CN 9H-Carbazole, 9,9'-[5'-(9-anthracenyl)[1,1':3',1''-terphenyl]-4,4''-diyl]bis- (9CI) (CA INDEX NAME)

RN 861213-25-4 HCAPLUS
CN 9H-Carbazole, 9,9'-[5'-(2-anthracenyl)[1,1':3',1''-terphenyl]-4,4''-diyl]bis-(9CI) (CA INDEX NAME)

RN 861213-26-5 HCAPLUS
CN 9H-Carbazole, 9,9'-[5'-(1-phenanthrenyl)[1,1':3',1''-terphenyl]-4,4''-diyl]bis- (9CI) (CA INDEX NAME)

RN 861213-27-6 HCAPLUS
CN 9H-Carbazole, 9,9'-[5'-(1-chrysenyl)[1,1':3',1''-terphenyl]-4,4''-diyl]bis(9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:324170 HCAPLUS Full-text

DOCUMENT NUMBER: 142:381934

TITLE: Coordination metal compound, material for organic electroluminescence device, material for luminescent

coating formation and organic electroluminescence

device

INVENTOR(S): Inoue, Tetsuya; Ito, Mitsunori; Ikeda, Hidetsugu;

Iwakuma, Toshihiro; Hosokawa, Chishio

PATENT ASSIGNEE(S): Idemitsu Kosan Co., Ltd., Japan

SOURCE: PCT Int. Appl., 172 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| | PATENT NO. | | | | | KIND | | DATE | | APPLICATION NO. | | | | | DATE | | | |
|------|----------------------|---------------|-----|-----|------|------|----------|------|-----------------|-----------------|------|------|----------|----------|------|------|------|-----|
| | WO | WO 2005033118 | | | A1 2 | | 20050414 | | WO 2004-JP12427 | | | | 20040823 | | | | | |
| | | W: | ΑE, | AG, | AL, | AM, | ΑT, | ΑU, | ΑZ, | BA, | BB, | BG, | BR, | BW, | BY, | BZ, | CA, | CH, |
| | | | CN, | CO, | CR, | CU, | CZ, | DE, | DK, | DM, | DZ, | EC, | EE, | EG, | ES, | FI, | GB, | GD, |
| | | | GE, | GH, | GM, | HR, | HU, | ID, | IL, | IN, | IS, | JP, | ΚE, | KG, | KΡ, | KR, | KΖ, | LC, |
| | | | LK, | LR, | LS, | LT, | LU, | LV, | MA, | MD, | MG, | MK, | MN, | MW, | MX, | MZ, | NA, | NΙ, |
| | | | NO, | NΖ, | OM, | PG, | PH, | PL, | PT, | RO, | RU, | SC, | SD, | SE, | SG, | SK, | SL, | SY, |
| | | | ТJ, | TM, | TN, | TR, | TΤ, | TZ, | UA, | UG, | US, | UZ, | VC, | VN, | YU, | ZA, | ZM, | ZW |
| | | RW: | BW, | GH, | GM, | ΚE, | LS, | MW, | MΖ, | NA, | SD, | SL, | SZ, | TZ, | UG, | ZM, | ZW, | AM, |
| | | | ΑZ, | BY, | KG, | KΖ, | MD, | RU, | ТJ, | TM, | AΤ, | BE, | BG, | CH, | CY, | CZ, | DE, | DK, |
| | | | EE, | ES, | FI, | FR, | GB, | GR, | HU, | IE, | ΙT, | LU, | MC, | NL, | PL, | PT, | RO, | SE, |
| | | | SI, | SK, | TR, | BF, | ВJ, | CF, | CG, | CI, | CM, | GΑ, | GN, | GQ, | GW, | ML, | MR, | ΝE, |
| | | | SN, | TD, | ΤG | | | | | | | | | | | | | |
| | ΕP | 1659 | 129 | | | A1 | 20060524 | | | EP 2004-772383 | | | | 20040823 | | | | |
| | | R: | AΤ, | BE, | CH, | DE, | DK, | ES, | FR, | GB, | GR, | ΙT, | LI, | LU, | NL, | SE, | MC, | PT, |
| | | | ΙE, | SI, | FI, | RO, | CY, | TR, | BG, | CZ, | EE, | HU, | PL, | SK | | | | |
| | CN | 1852 | 910 | | | Α | | 2006 | 1025 | | CN 2 | 004- | 8002 | 4546 | | 2 | 0040 | 823 |
| | US 20070009760 | | | | A1 | | 2007 | 0111 | | US 2 | 006- | 5694 | 20 | | 2 | 0060 | 223 | |
| PRIO | IORITY APPLN. INFO.: | | | | | | | | JP 2 | 003- | 3012 | 32 | | A 2 | 0030 | 826 | | |
| | | | | | | | | | | | JP 2 | 004- | 1258 | 98 | | A 2 | 0040 | 421 |
| | | | | | | | | | | • | WO 2 | 004- | JP12 | 427 | • | W 2 | 0040 | 823 |
| 3.5 | - | | 4.7 | | | - | | | | | | - | | | | | | |

AB A coordination metal compound comprising at least one spiro-bond-having ligand coordinated to a metal atom; a material for organic electroluminescence (EL)

device; and an organic EL device comprising a neg. electrode and a pos. electrode and, interposed there between, one or multiple organic thin-film layers including at least a light emitting layer, wherein at least one of the organic thin-film layers contains the above coordination metal compound or material for organic EL device. There are further provided a material for luminescent coating formation comprising an organic solvent solution containing the above coordination metal compound or material for organic EL device; and an organic EL device produced from the above material for luminescent coating formation or material for organic EL device, which organic EL device realizes high luminous efficiency and high stability during high temperature storage. Still further, there are provided, ensuring realization of the above and excelling in solubility in organic solvents, a coordination metal compound, material for organic EL device and material for luminescent coating formation.

IT 849690-46-6P

RL: DEV (Device component use); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(coordination metal compound, material for organic electroluminescence device, material for luminescent coating formation and organic electroluminescence device)

RN 849690-46-6 HCAPLUS

CN Iridium, tris[4-[7-(4,4''-di-9H-carbazol-9-yl[1,1':3',1''-terphenyl]-5'-yl)-1',3'-dihydrospiro[9H-fluorene-9,2'-[2H]inden]-2-yl]-2-(2-pyridinyl- κ N)phenyl- κ C]- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

PAGE 2-B

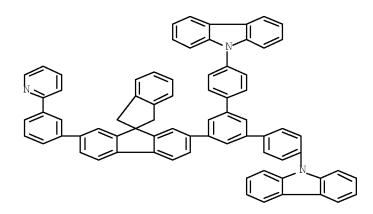
IT 849677-15-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(coordination metal compound, material for organic electroluminescence device, material for luminescent coating formation and organic electroluminescence device)

RN 849677-15-2 HCAPLUS

CN 9H-Carbazole, 9,9'-[5'-[1',3'-dihydro-7-[3-(2-pyridinyl)phenyl]spiro[9H-fluorene-9,2'-[2H]inden]-2-yl][1,1':3',1''-terphenyl]-4,4''-diyl]bis-(9CI) (CA INDEX NAME)



REFERENCE COUNT:

5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

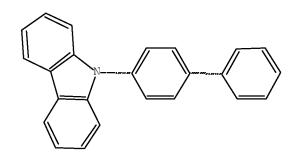
***** QUERY RESULTS ***** (BROAD SEARCH WITH DATE LIMIT/UTILITY TERMS)

=> d his 119

(FILE 'HCAPLUS' ENTERED AT 13:12:07 ON 23 SEP 2008) L19 630 S L18 AND (PY<01012005)

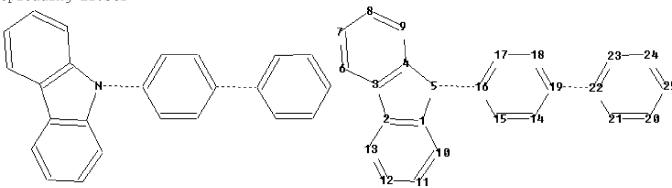
=> d que 119

L1 STR



Structure attributes must be viewed using STN Express query preparation:

Uploading L2.str



ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

24 25

chain bonds :

5-16 19-22

ring bonds :

1-2 1-5 1-10 2-3 2-13 3-4 3-6 4-5 4-9 6-7 7-8 8-9 10-11 11-12 12-13

14-15 14-19 15-16 16-17 17-18 18-19 20-21 20-25 21-22 22-23 23-24 24-25

exact/norm bonds :

1-5 4-5 5-16 19-22

exact bonds :

2-3

normalized bonds :

 $1-2 \quad 1-10 \quad 2-13 \quad 3-4 \quad 3-6 \quad 4-9 \quad 6-7 \quad 7-8 \quad 8-9 \quad 10-11 \quad 11-12 \quad 12-13 \quad 14-15 \quad 14-19$

15-16 16-17 17-18 18-19 20-21 20-25 21-22 22-23 23-24 24-25

isolated ring systems :

containing 1 : 14 : 20 :

Match level : 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom L2642 SEA FILE=REGISTRY SSS FUL L1 1442 SEA FILE=HCAPLUS ABB=ON PLU=ON L2 L7 T.8 293874 SEA FILE=HCAPLUS ABB=ON PLU=ON ELECTROLUMINESC? OR LUMINESC? L9 1354 SEA FILE=HCAPLUS ABB=ON PLU=ON L7 AND L8 L10 168048 SEA FILE=HCAPLUS ABB=ON PLU=ON LIGHT EMITT? OR DIODE? OR OLED 859 SEA FILE=HCAPLUS ABB=ON PLU=ON L9 AND L10 L11 859 SEA FILE=HCAPLUS ABB=ON PLU=ON L11 AND (PY<01012005) L12 800 SEA FILE=HCAPLUS ABB=ON PLU=ON L12 AND 73/SC,SX L14 71838 SEA FILE=HCAPLUS ABB=ON PLU=ON "ELECTROLUMINESCENT DEVICES"+O L15 LD, UF/CT L17 32932 SEA FILE=HCAPLUS ABB=ON PLU=ON ORGANIC (L) (L8 OR L15) 630 SEA FILE=HCAPLUS ABB=ON PLU=ON L14 AND L17 L18 L19 630 SEA FILE=HCAPLUS ABB=ON PLU=ON L18 AND (PY<01012005)

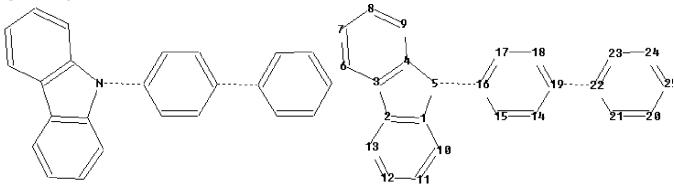
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=> d his nofile
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(FILE 'HOME' ENTERED AT 13:09:16 ON 23 SEP 2008)

FILE 'REGISTRY' ENTERED AT 13:09:28 ON 23 SEP 2008 ACT GAR262REGL2/A

L1 STR

Uploading L2.str



ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

24 25

chain bonds :

5-16 19-22

ring bonds :

 $1-2 \quad 1-5 \quad 1-10 \quad 2-3 \quad 2-13 \quad 3-4 \quad 3-6 \quad 4-5 \quad 4-9 \quad 6-7 \quad 7-8 \quad 8-9 \quad 10-11 \quad 11-12 \quad 12-13$

 $14-15 \quad 14-19 \quad 15-16 \quad 16-17 \quad 17-18 \quad 18-19 \quad 20-21 \quad 20-25 \quad 21-22 \quad 22-23 \quad 23-24 \quad 24-25$

exact/norm bonds :

1-5 4-5 5-16 19-22

exact bonds :

2-3

normalized bonds :

 $1-2 \quad 1-10 \quad 2-13 \quad 3-4 \quad 3-6 \quad 4-9 \quad 6-7 \quad 7-8 \quad 8-9 \quad 10-11 \quad 11-12 \quad 12-13 \quad 14-15 \quad 14-19$

15-16 16-17 17-18 18-19 20-21 20-25 21-22 22-23 23-24 24-25

isolated ring systems :

containing 1 : 14 : 20 :

Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom

20:Atom 21:Atom

22:Atom 23:Atom 24:Atom 25:Atom

L2 642 SEA SSS FUL L1

L3 STRUCTURE UPLOADED

D

Uploading L4.str

```
chain nodes :
27 28 48 49 54
ring nodes :
  2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
56 57 58 59
60 61 62 63 64
                 65 66 67 68 69 70 71 72 73
chain bonds :
5-16 19-22 20-54 24-27 25-58 31-48 34-38 61-65
ring bonds :
1-2 1-5 1-10 2-3 2-13 3-4 3-6 4-5 4-9 6-7 7-8 8-9 10-11 11-12 12-13
14-15 14-19 15-16 16-17 17-18 18-19 20-21 20-25 21-22 22-23 23-24 24-25
29-30 29-34
30-31 31-32 32-33 33-34 35-36 35-39 35-43 36-37 36-44 37-38 37-47 38-39
39-40 40-41
41-42 42-43 44-45 45-46 46-47 56-57 56-61 57-58 58-59 59-60 60-61
62-66 62-70 63-64
63-71 \quad 64-65 \quad 64-74 \quad 65-66 \quad 66-67 \quad 67-68 \quad 68-69 \quad 69-70 \quad 71-72 \quad 72-73 \quad 73-74
exact/norm bonds :
1-5 4-5 5-16 20-54 34-38 37-38 38-39 61-65 64-65 65-66
exact bonds :
2-3 19-22 24-27 25-58 31-48 35-36 62-63
normalized bonds :
1-2 1-10 2-13 3-4 3-6 4-9 6-7 7-8 8-9 10-11 11-12 12-13 14-15 14-19
15-16 16-17 17-18 18-19 20-21 20-25 21-22 22-23 23-24 24-25 29-30 29-34
30-31 31-32
32-33
     33-34 35-39 35-43 36-37 36-44 37-47 39-40 40-41 41-42 42-43 44-45
45-46 46-47
            56-57
56-61 57-58 58-59 59-60 60-61 62-66 62-70 63-64 63-71 64-74 66-67 67-68
68-69 69-70
71-72 72-73 73-74
isolated ring systems :
containing 1 : 14 : 20 : 29 : 35 : 56 : 62 :
```

G1:[*1],[*2],[*3]

Match level:
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom
22:Atom 23:Atom 24:Atom 25:Atom 27:Atom 28:CLASS 29:Atom 30:Atom 31:Atom

```
34:Atom 35:Atom 36:Atom 37:Atom 38:Atom 39:Atom 40:Atom 41:Atom 42:Atom
43:Atom 44:Atom
45:Atom 46:Atom 47:Atom 48:CLASS 49:Atom 54:CLASS 56:Atom 57:Atom 58:Atom
59:Atom 60:Atom
61:Atom 62:Atom 63:Atom 64:Atom 65:Atom 66:Atom 67:Atom 68:Atom 69:Atom
70:Atom 71:Atom
Generic attributes :
Number of Carbon Atoms: 7 or more
49:
Number of Carbon Atoms: 7 or more
            0 SEA SUB=L2 SSS SAM L3
L4
L5
             8 SEA SUB=L2 SSS FUL L3
              SAVE TEMP L5 GAR262REGL4/A
    FILE 'HCAPLUS' ENTERED AT 13:12:07 ON 23 SEP 2008
             1 SEA ABB=ON PLU=ON L5
L6
              D SCAN
              SAVE TEMP L6 GAR262HCAP3/A
              D IBIB
L7
          1442 SEA ABB=ON PLU=ON L2
        293874 SEA ABB=ON PLU=ON ELECTROLUMINESC? OR LUMINESC?
L8
          1354 SEA ABB=ON PLU=ON L7 AND L8
        168048 SEA ABB=ON PLU=ON LIGHT EMITT? OR DIODE? OR OLED
L10
          859 SEA ABB=ON PLU=ON L9 AND L10
L11
          859 SEA ABB=ON PLU=ON L11 AND (PY<01012005)
L12
L13
            1 SEA ABB=ON PLU=ON US 20070116982/PN
              D IBIB IT SC
           800 SEA ABB=ON PLU=ON L12 AND 73/SC,SX
L14
              E ELECTROLUMINESCENT DEVICE?
              E ELECTROLUMINESCENT DEVICES/CT
              E E3+ALL
         71838 SEA ABB=ON PLU=ON "ELECTROLUMINESCENT DEVICES"+OLD, UF/CT
L15
           785 SEA ABB=ON PLU=ON L14 AND L15
L16
         32932 SEA ABB=ON PLU=ON ORGANIC (L) (L8 OR L15)
L17
L18
          630 SEA ABB=ON PLU=ON L14 AND L17
L19
           630 SEA ABB=ON PLU=ON L18 AND (PY<01012005)
    FILE 'STNGUIDE' ENTERED AT 13:23:31 ON 23 SEP 2008
    FILE 'REGISTRY' ENTERED AT 13:26:44 ON 23 SEP 2008
              STRUCTURE UPLOADED
L20
              D
```

Uploading L5.str

```
chain nodes :
27 48
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
chain bonds :
5-16 19-22 20-30 24-27 25-48 33-37
ring bonds :
1-2 \quad 1-5 \quad 1-10 \quad 2-3 \quad 2-13 \quad 3-4 \quad 3-6 \quad 4-5 \quad 4-9 \quad 6-7 \quad 7-8 \quad 8-9 \quad 10-11 \quad 11-12 \quad 12-13
14-15 \quad 14-19 \quad 15-16 \quad 16-17 \quad 17-18 \quad 18-19 \quad 20-21 \quad 20-25 \quad 21-22 \quad 22-23 \quad 23-24 \quad 24-25
28-29 28-33
29-30 30-31 31-32 32-33 34-35 34-38 34-42 35-36 35-43 36-37 36-46 37-38
38-39 39-40
40-41 41-42 43-44 44-45 45-46
exact/norm bonds :
1-5 4-5 5-16 33-37 36-37 37-38
exact bonds :
2-3 19-22 20-30 24-27 25-48 34-35
normalized bonds :
1-2 \quad 1-10 \quad 2-13 \quad 3-4 \quad 3-6 \quad 4-9 \quad 6-7 \quad 7-8 \quad 8-9 \quad 10-11 \quad 11-12 \quad 12-13 \quad 14-15 \quad 14-19
15-16 16-17 17-18 18-19 20-21 20-25 21-22 22-23 23-24 24-25 28-29 28-33
29-30 30-31
31-32 32-33 34-38 34-42 35-36 35-43 36-46 38-39 39-40 40-41 41-42 43-44
44-45 45-46
isolated ring systems :
containing 1 : 14 : 20 : 28 : 34 :
Match level:
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom
22:Atom 23:Atom 24:Atom 25:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom
34:Atom 35:Atom 36:Atom 37:Atom 38:Atom 39:Atom 40:Atom 41:Atom 42:Atom
43:Atom 44:Atom
45:Atom 46:Atom 48:CLASS
Generic attributes :
27:
```

| L21 | 0 | SEA | SUB=L2 | SSS | SAM | L20 | | |
|-----|---|-----|--------|-----|------|-----|-----|----|
| L22 | 9 | SEA | SUB=L2 | SSS | FUL | L20 | | |
| L23 | 9 | SEA | ABB=ON | PLU | J=ON | L22 | NOT | L5 |

Number of Carbon Atoms: 7 or more

FILE 'HCAPLUS' ENTERED AT 13:28:17 ON 23 SEP 2008 L24 2 SEA ABB=ON PLU=ON L23

FILE 'STNGUIDE' ENTERED AT 13:29:42 ON 23 SEP 2008

FILE 'REGISTRY' ENTERED AT 13:36:01 ON 23 SEP 2008 STRUCTURE UPLOADED L25 D

Uploading L6.str

chain nodes :

27

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46

chain bonds :

5-16 19-22 20-30 24-27 33-37

ring bonds :

 $1-2 \quad 1-5 \quad 1-10 \quad 2-3 \quad 2-13 \quad 3-4 \quad 3-6 \quad 4-5 \quad 4-9 \quad 6-7 \quad 7-8 \quad 8-9 \quad 10-11 \quad 11-12 \quad 12-13$

 $14-15 \quad 14-19 \quad 15-16 \quad 16-17 \quad 17-18 \quad 18-19 \quad 20-21 \quad 20-25 \quad 21-22 \quad 22-23 \quad 23-24 \quad 24-25$ 28-29 28-33

29-30 30-31 31-32 32-33 34-35 34-38 34-42 35-36 35-43 36-37 36-46 37-38

38-39 39-40

40-41 41-42 43-44 44-45 45-46

exact/norm bonds :

1-5 4-5 5-16 19-22 20-30 33-37 36-37 37-38

exact bonds :

2-3 24-27 34-35

normalized bonds :

 $1-2 \quad 1-10 \quad 2-13 \quad 3-4 \quad 3-6 \quad 4-9 \quad 6-7 \quad 7-8 \quad 8-9 \quad 10-11 \quad 11-12 \quad 12-13 \quad 14-15 \quad 14-19$

15-16 16-17 17-18 18-19 20-21 20-25 21-22 22-23 23-24 24-25 28-29 28-33

29-30 30-31

31-32 32-33 34-38 34-42 35-36 35-43 36-46 38-39 39-40 40-41 41-42 43-44

44-45 45-46

isolated ring systems :

containing 1 : 14 : 20 : 28 : 34 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom

20:Atom 21:Atom

22:Atom 23:Atom 24:Atom 25:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom

34:Atom 35:Atom 36:Atom 37:Atom 38:Atom 39:Atom 40:Atom 41:Atom 42:Atom

43:Atom 44:Atom

45:Atom 46:Atom

Generic attributes :

27:

Saturation : Unsaturated Number of Carbon Atoms : 7 or more Type of Ring System : Polycyclic

L26 0 SEA SUB=L2 SSS SAM L25 L27 9 SEA SUB=L2 SSS FUL L25

L28 9 SEA ABB=ON PLU=ON L27 OR L23

FILE 'HCAPLUS' ENTERED AT 13:37:34 ON 23 SEP 2008 L29 2 SEA ABB=ON PLU=ON L28

D SCAN TI D AU 1-2

FILE 'REGISTRY' ENTERED AT 13:38:16 ON 23 SEP 2008 SAVE TEMP L23 GAR262REGL5/A SAVE TEMP L28 GAR262REGL6/A

FILE 'HCAPLUS' ENTERED AT 13:39:28 ON 23 SEP 2008

FILE 'STNGUIDE' ENTERED AT 13:41:35 ON 23 SEP 2008
D QUE L6

FILE 'HCAPLUS' ENTERED AT 13:42:07 ON 23 SEP 2008
D L6 IBIB ABS HITSTR

FILE 'STNGUIDE' ENTERED AT 13:42:08 ON 23 SEP 2008
D QUE L29

FILE 'HCAPLUS' ENTERED AT 13:42:58 ON 23 SEP 2008
D L29 1-2 IBIB ABS HITSTR

FILE 'STNGUIDE' ENTERED AT 13:42:59 ON 23 SEP 2008 D QUE L19